

Fig. 1

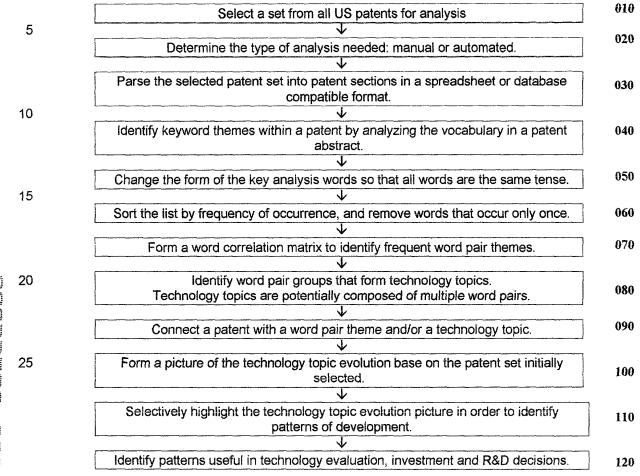


Fig. 2

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Abstract Word Correlation Matrix

	laundry	detergent	odor*	granul*	agricultur*	pesticid*	herbic*	insect*
laundry	0	69	7	63	0	0	0	0
detergent	69	0	11	83	1	0	0	0
odor*	7	11	0	2	0	0	4	3
granul*	63	83	2	0	8	3	11	1
agricultur*	0	1	0	8	0	0	8	0
pesticid*	0	0	0	3	0	0	0	1
herbic*	0	0	4	11	8	0	0	2
insect*	0	0	3	1	0	1	2	0

Fig. 3a Expert opinion

Laundry Technology Topic Agriculture Technology Topic

Fig. 3b
Word
correlation
analysis result

Second Technology Topics acid carbonate all compositions bleach detergent compositions dry fabric containing detergent granular dry laundry free process granular water laundry product silicate surfactant

water

agents amine growth formulation herbicidal formulations liquid glyphosate particles granules plant growth water herbicidal oxide plant powder powders regulant saits water

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Technology Evolution

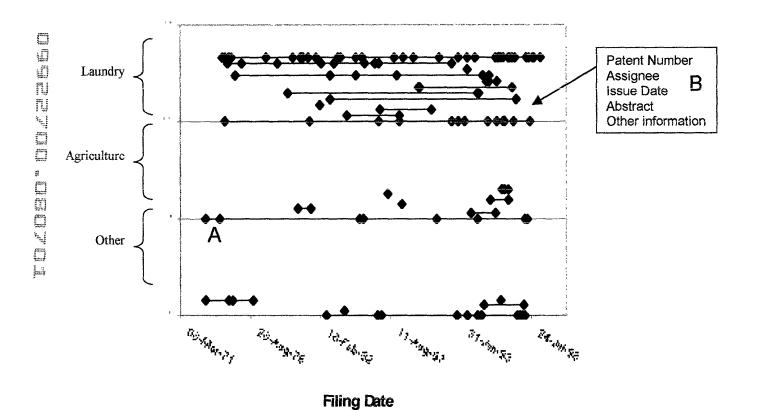
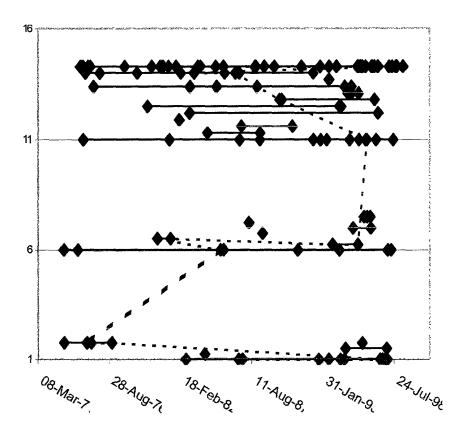


Fig. 4

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Technology Evolution



Filing Date

Fig. 5

1 1 1 1

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	210
Select a set from all US patents for analysis	210
↓	
Determine the type of analysis needed: manual or automated.	220
↓	
Parse the selected patent set into patent sections in a spreadsheet or database compatible format.	230
V	
Identify technical references for use in co-citation analysis.	240
V	
Form an artificial journal reference for each scientific journal article in Other References.	250
<u> </u>	
Identify journal connections within the selected set of patents using co-citation analysis and Other References.	260
<u> </u>	
Identify patent groups from co-citation clusters that contain similar scientific themes.	270
V	
Form a picture of the technology topic evolution base on the patent set initially selected.	280
<u> </u>	
Selectively highlight the technology topic evolution picture in order to identify patterns of development.	290
↓	
Identify patterns useful in technology evaluation, investment and R&D decisions.	300

Fig. 6

Patenting Statistics: An Indicator of Technology Status

Wells, Drilling Pattern Biotechnology Laundry Detergent | Cosmetics/Perfume 7a Abstract Book Brochure Government Journal Newspaper Other Patent TOTAL Number of Patents Journal Refs/Patent 62.4 6.2 3.4

7b	Categorization & Identification Accuracy					
	Run 2	Category	Ref.			
	ОК	99.12%	98.25%			

Fig. 7

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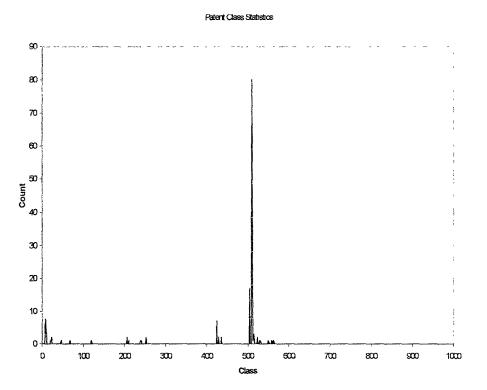


Fig. 8

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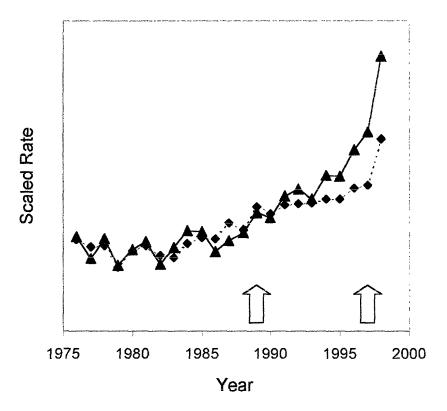


Fig. 9

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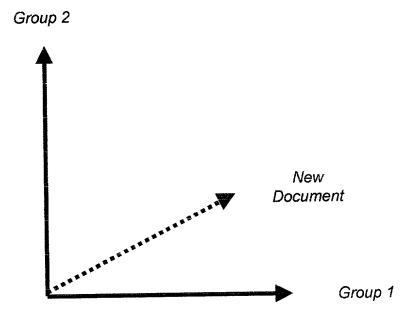


Fig. 10